ELSEVIER

Surface Science 311 (1994) 442–448

surface science

Author index

Abon, M., see Fallavier	311 (1994)	24
Adams, J.B., see Xu	311 (1994)	441
Ågren, H., P. Norman, D. Jonsson and C. Liegener, On the vibrational and orientational probing of surface-adsorbates by direct and resonance photoemission	311 (1994)	375
Anno, E., Optical absorption of continuous films and particles of Fe and Cr: localization of conduction electrons	311 (1994)	224
Aseev, A.L., see Latyshev	311 (1994)	395
Asensio, M.C., see Davila	311 (1994)	337
Atli, H.A., see Fallavier	311 (1994)	24
Avrin, W.F. and R.P. Merrill, Simplified analysis of helium scattering: supernumerary rainbows from a soft, corrugated potential	311 (1994)	269
Baerends, E.J., see Kirchner	311 (1994)	126
Bart, F. and M. Gautier, A LEED study of the (0001) α-quartz surface reconstruction	311 (1994)	L671
Benmansour, M., see Fallavier	311 (1994)	24
Bertolini, J.C., see Fallavier	311 (1994)	24
Bonzel, H.P., see Hamadeh	311 (1994)	1
Bradshaw, A.M., see Davila	311 (1994)	337
Brejnak, M., A. Holas and P. Modrak, Surface segregation of hydrogen isotopes in transition-metal hydrides	311 (1994)	404
Bronikowski, M.J., see Wang	311 (1994)	64
Bu, Y. and M.C. Lin, Surface chemistry of N_2H_4 on Si(100)-2 × 1	311 (1994)	385
Bureau, C., M. Defranceschi, J. Delhalle, G. Deniau, J. Tanguy and G. Lecayon, Theoretical monomer/cluster model of a polymer/metal interface: poly(methacrylonitrile) on a nickel surface	311 (1994)	349
Burke, M.L. and D.W. Goodman, Epitaxial growth of ultrathin layered oxide films: MgO on NiO/Mo(100)	311 (1994)	17
Buslaps, T., see Vey	311 (1994)	53
Caratti, G., see Ferrando	311 (1994)	411
Castellani, N.J., see Majerus	311 (1994)	L661
Chakarov, D.V., L. Österlund, B. Hellsing, V.P. Zhdanov and B. Kasemo, Photostimulated desorption of metal adatoms: potassium on graphite	311 (1994)	L724
Chen, D., see Höper	311 (1994)	L731
Chêne, J., see Roustila	311 (1994)	33
Cholach, A.R., see Smirnov	311 (1994)	308
Chuang, T.J., see Fukutani	311 (1994)	247

Elsevier Science B.V.

Conesa, J.C., see Davila 311 (1994) 337
Conrad, H., see Müssig 311 (1994) 295

Davila, M.E., M.C. Asensio, D.P. Woodruff, K.-M. Schindler, Ph. Hofmann, K.-U. Weiss, R. Dippel, P. Gardner, V. Fritzsche, A.M. Bradshaw, J.C. Conesa and A.R. González-Elipe, Structure determination of Ni(111)c(4 × 2)-CO and its implications for the interpretation of vibrational spectroscopic data 311 (1994) 337
Daw, M.S., see Fallis 311 (1994) L717
Defranceschi, M., see Bureau 311 (1994) 349
Delhalle, J., see Bureau 311 (1994) 349
Deniau, G., see Bureau 311 (1994) 349
Di Bona, A., see Valeri 311 (1994) 422
Dippel, R., see Davila 311 (1994) 337
Dudarev, S.L. and M.J. Whelan, Temperature dependence of elastic backscattering of electrons from polycrystalline solids 311 (1994) L687
Duke, C.B., Erratum to "Interaction of electrons and positrons with solids: from bulk to surface in thirty years" [Surface Science 299/300 (1994) 24] 311 (1994) 440

Egdell, R.G., see Roberts 311 (1994) 181
Eriksson, M. and L.-G. Petersson, Spillover of hydrogen, oxygen and carbon monoxide in oxidation reactions on SiO_2 supported Pd 311 (1994) 139
Erkoç, Ş., see Katircioglu 311 (1994) L682
Erkoç, Ş., see Katircioglu 311 (1994) L703

Fallavier, M., M. Benmansour, B. Hjörvarsson, J.P. Thomas, M. Abon, H.A. Atli and J.C. Bertolini, Hydrogen on $Pt_{0.5}Ni_{0.5}$(110), alloying effects upon adsorption 311 (1994) 24
Fallis, M.C., A.F. Wright, C.Y. Fong and M.S. Daw, Trapping of a diffusing adatom by a substitutional surface defect 311 (1994) L717
Fang, D., see Pan 311 (1994) 281
Ferrando, R., R. Spadacini, G.E. Tommei and G. Caratti, Correlation functions in surface diffusion: the multiple-jump regime 311 (1994) 411
Flavell, W.R., see Roberts 311 (1994) 181
Fong, C.Y., see Fallis 311 (1994) L717
Fritzsche, V., see Davila 311 (1994) 337
Fukutani, K., Y. Murata, R. Schwarzwald and T.J. Chuang, UV-laser-induced desorption of NO from Pt(111) 311 (1994) 247

Gardner, P., see Davila 311 (1994) 337
Gautier, M., see Bart 311 (1994) L671
Gazzadi, G.C., see Valeri 311 (1994) 422
Golan, Y., L. Margulis, G. Hodes, I. Rubinstein and J.L. Hutchison, Electrodeposited quantum dots. II. High resolution electron microscopy of epitaxial CdSe nanocrystals on {111} gold 311 (1994) L633
González-Elipe, A.R., see Davila 311 (1994) 337
Goodman, D.W., see Burke 311 (1994) 17
Gorodetskii, V.V., see Smirnov 311 (1994) 308
Goschke, R.A., see Vey 311 (1994) 53
Greene, W.J., see Kubby 311 (1994) L695

Hamadeh, H., O. Knauff, G. Pirug and H.P. Bonzel, Adsorption of ethylene oxide on Ni(110): structure, thermal and radiation-induced decomposition 311 (1994) 1
Hamers, R.J., see Wang 311 (1994) 64
Hara, S., see Ikemiya 311 (1994) L641
Harris, S., Monatomic to biatomic step transition during epitaxial growth by step flow 311 (1994) L712
Hegeman, P.E., H.J.W. Zandvliet, G.A.M. Kip and A. van Silfhout, Kinetic roughening of vicinal Si(001) 311 (1994) L655
Hellsing, B., see Chakarov 311 (1994) L724
Hjörvarsson, B., see Fallavier 311 (1994) 24
Hoad, D.R.C., see Roberts 311 (1994) 181
Hodes, G., see Golan 311 (1994) L633
Hofmann, Ph., see Davila 311 (1994) 337
Holas, A., see Brejnak 311 (1994) 404
Höper, R., R.K. Workman, D. Chen, D. Sarid, T. Yadav, J.C. Withers and R.O. Loutfy, Single-shell carbon nanotubes imaged by atomic force microscopy 311 (1994) L731
Hovi, J.-P., J. Lahtinen, J. Vaari and R.M. Nieminen, Monte-Carlo simulations of CO hydrogenation on a (0001) surface 311 (1994) 331
Hu, J.J., see Tonscheidt 311 (1994) 214
Huang, F., see Pan 311 (1994) 281
Hutchison, J.L., see Golan 311 (1994) L633

Ikemiya, N., S. Miyaoka and S. Hara, Observations of the Cu(1 × 1) adlayer on Au(111) in a sulfuric acid solution using atomic force microscopy 311 (1994) L641
Imanishi, A., see Yagi 311 (1994) 172
Inukai, J., see Ogasawara 311 (1994) L665
Ito, M., see Ogasawara 311 (1994) L665

Jaffey, D.M. and R.J. Madix, The reactivity of sulfur-containing molecules on noble metal surfaces. III. Ethanethiol on Au(110) and Ag(110) 311 (1994) 159
Jonsson, D., see Ågren 311 (1994) 375

Kanazawa, T., see Yagi 311 (1994) 172
Kasemo, B., see Chakarov 311 (1994) L724
Katircioglu, Ş. and Ş. Erkoç, Dependence of resonance states on doping level and doping distribution type in $GaAs/Ga_{0.75}Al_{0.25}As$ superlattice 311 (1994) L682
Katircioglu, S. and Ş. Erkoç, Adsorption sites of Ge adatoms on stepped Si(110) surface 311 (1994) L703
Kelly, D., see Verhoef 311 (1994) 196
Kip, G.A.M., see Hegeman 311 (1994) L655
Kipp, S., see Müller-Zülow 311 (1994) 153
Kirchner, E.J.J. and E.J. Baerends, A theoretical study of oxygen adsorption on Ge(001) 311 (1994) 126
Kitajima, Y., see Yagi 311 (1994) 172
Knauff, O., see Hamadeh 311 (1994) 1
Koinuma, M. and K. Uosaki, In situ observations of atomic resolution image and anodic dissolution process of p-GaAs in HCl solution by electrochemical atomic force microscope 311 (1994) L737
Krasilnikov, A.B., see Latyshev 311 (1994) 395
Kubby, J.A. and W.J. Greene, Imaging misfit dislocations in epitaxial $CoSi_2/Si(111)$ layers using quantum size microscopy 311 (1994) L695

Lacmann, R., see Müller-Zülow 311 (1994) 153
Lahtinen, J., see Hovi 311 (1994) 331
Latyshev, A.V., A.B. Krasilnikov and A.L. Aseev, UHV REM study of the anti-band structure on the vicinal Si(111) surface under heating by a direct electric current 311 (1994) 395
Lauterbach, J. and H.H. Rotermund, Spatio-temporal pattern formation during the catalytic CO-oxidation on Pt(100) 311 (1994) 231
Lecayon, G., see Bureau 311 (1994) 349
Légaré, P., see Majerus 311 (1994) L661
Leibsle, F.M., Purposeful coadsorption as a method for determining adsorption sites in scanning tunneling microscopy experiments 311 (1994) 45
Liegener, C., see Ågren 311 (1994) 375
Lin, M.C., see Bu 311 (1994) 385
Loutfy, R.O., see Höper 311 (1994) L731

Madix, R.J., see Jaffey 311 (1994) 159
Majerus, J., N.J. Castellani and P. Légaré, Semi-empirical approaches of surface phenomena: Pt and Ni adatoms on Pt(111) and Ni(111) 311 (1994) L661
Mann, C.K., see Xu 311 (1994) L707
Margulis, L., see Golan 311 (1994) L633
Merrill, R.P., see Avrin 311 (1994) 269
Miyaoka, S., see Ikemiya 311 (1994) L641
Mizutani, W., see Nie 311 (1994) L649
Mochiji, K., I. Ochiai, S. Yamamoto and S. Takatani, Photon-stimulated ion desorption and photoelectron spectroscopy of a chlorine-adsorbed GaAs(111)B surface 311 (1994) L677
Modrak, P., see Brejnak 311 (1994) 404
Mönch, W., see Westermann 311 (1994) 101
Müller-Zülow, B., S. Kipp, R. Lacmann and M.A. Schneeweiss, Topological aspects of iron corrosion in alkaline solution by means of scanning force microscopy (SFM) 311 (1994) 153
Mullins, C.B., see Verhoef 311 (1994) 196
Murata, Y., see Fukutani 311 (1994) 247
Murata, Y., see Okada 311 (1994) 257
Müssig, H.-J., W. Stenzel, Y. Song and H. Conrad, Hydrogen adsorption on Rh(110) studied by high resolution electron energy loss spectroscopy 311 (1994) 295

Nakatani, S. and T. Takahashi, Dynamical treatment of X-ray reflection from crystal surfaces 311 (1994) 433
Nettesheim, S., see Von Oertzen 311 (1994) 322
Nie, H.Y., W. Mizutani and H. Tokumoto, Au(111) reconstruction observed by atomic force microscopy with lateral force detection 311 (1994) L649
Nieminen, R.M., see Hovi 311 (1994) 331
Nienhaus, H., see Westermann 311 (1994) 101
Norman, P., see Ågren 311 (1994) 375

Ochiai, I., see Mochiji 311 (1994) L677
Oechsner, H., see Šroubek 311 (1994) 263
Oelhafen, P., see Schühler 311 (1994) 189
Ogasawara, H., J. Inukai and M. Ito, Ex-situ IRAS and LEED studies of underpotentially deposited copper on a Pt(111) electrode in a sulfuric acid solution: layer exchanges of anions with copper 311 (1994) L665

Ohta, T., see Yagi 311 (1994) 172
Okada, M. and Y. Murata, Sputtering of Al surfaces by very-low-energy light ions 311 (1994) 257
Österlund, L., see Chakarov 311 (1994) L724

Pan, L., Y. Wang, F. Huang, D. Fang, J. Tang and F. Yang, Calculation of charge-exchange in lithium ions/atoms scattered from cesiated metal surfaces 311 (1994) 281
Percheron-Guégan, A., see Roustila 311 (1994) 33
Petersson, L.-G., see Eriksson 311 (1994) 139
Pirug, G., see Hamadeh 311 (1994) 1

Randall, S., see Roberts 311 (1994) 181
Roberts, A.J., W.R. Flavell, D.R.C. Hoad, R.G. Egdell, S. Randall, P.L. Wincott and D. Teehan, Surface electronic structure of the $SrSn_{1-x}Sb_xO_3$ perovskite system 311 (1994) 181
Rotermund, H.H., see Lauterbach 311 (1994) 231
Rotermund, H.H., see Von Oertzen 311 (1994) 322
Roustila, A., C. Severac, J. Chêne and A. Percheron-Guégan, Hydrogen effects on the electronic and microstructural properties of Ce, Ni, and $CeNi_2$ intermetallic compound 311 (1994) 33
Rubinstein, I., see Golan 311 (1994) L633
Ryder, P.L., see Tonscheidt 311 (1994) 214

Sarid, D., see Höper 311 (1994) L731
Schelz, S., see Schühler 311 (1994) 189
Schindler, K.-M., see Davila 311 (1994) 337
Schlenoff, J.B., see Xu 311 (1994) L707
Schneeweiss, M.A., see Müller-Zülow 311 (1994) 153
Schühler, N., S. Schelz and P. Oelhafen, In situ metallization of polystyrene: a PES study of the interface properties 311 (1994) 189
Schwarzwald, R., see Fukutani 311 (1994) 247
Severac, C., see Roustila 311 (1994) 33
Shimada, W. and H. Tochihara, Step-structure dependent step-flow: models for the homoepitaxial growth at the atomic steps on Si(111)7×7 311 (1994) 107
Sibener, S.J., see Tisdale 311 (1994) 360
Smirnov, M.Yu., V.V. Gorodetskii, A.R. Cholach and D.Yu. Zemlyanov, Hydrogenation of isolated atoms and small clusters of carbon on Pt(111) surface: HREELS/TDS studies 311 (1994) 308
Sokolov, I.Yu., On the limits of the spectroscopic ability of AFM and the interaction between an AFM tip and a sample 311 (1994) 287
Song, Y., see Müssig 311 (1994) 295
Spadacini, R., see Ferrando 311 (1994) 411
Šroubek, Z. and H. Oechsner, Study of ionization processes in sputtering of LiF 311 (1994) 263
Steglich, F., see Vey 311 (1994) 53
Stenzel, W., see Müssig 311 (1994) 295

Takahashi, T., see Nakatani 311 (1994) 433
Takata, Y., see Yagi 311 (1994) 172
Takatani, S., see Mochiji 311 (1994) L677
Tang, J., see Pan 311 (1994) 281
Tanguy, J., see Bureau 311 (1994) 349
Teehan, D., see Roberts 311 (1994) 181

Thomas, J.P., see Fallavier 311 (1994) 24
Tisdale, G. and S.J. Sibener, Surface phonon dispersion of p(2 × 2)O/Ni(111) 311 (1994) 360
Tochihara, H., see Shimada 311 (1994) 107
Tokumoto, H., see Nie 311 (1994) L649
Tommei, G.E., see Ferrando 311 (1994) 411
Tonscheidt, A., J.J. Hu and P.L. Ryder, Location of small iridium and platinum clusters in faujasites 311 (1994) 214
Tseng, C.-H., see Xu 311 (1994) L707

Uosaki, K., see Koinuma 311 (1994) L737

Vaari, J., see Hovi 311 (1994) 331
Valeri, S., A. di Bona and G.C. Gazzadi, Angular anisotropy of electron-excited secondary electron emission 311 (1994) 422
Van Silfhout, A., see Hegeman 311 (1994) L655
Verhoef, R.W., D. Kelly, C.B. Mullins and W.H. Weinberg, Direct dissociative chemisorption of methane and ethane on Ir(110): isotope effects and vibrationally assisted chemisorption 311 (1994) 196
Vey, K., R.A. Goschke, T. Buslaps, U. Walter and F. Steglich, STM-mediated surface degradation on 1T-TaS_2 311 (1994) 53
Vickers, T.J., see Xu 311 (1994) L707
Von Oertzen, A., H.H. Rotermund and S. Nettesheim, Diffusion of carbon monoxide and oxygen on Pt(110): experiments performed with the PEEM 311 (1994) 322

Walter, U., see Vey 311 (1994) 53
Wang, Y., M.J. Bronikowski and R.J. Hamers, An atomically resolved scanning tunneling microscopy study of the thermal decomposition of disilane on Si(001) 311 (1994) 64
Wang, Y., see Pan 311 (1994) 281
Weinberg, W.H., see Verhoef 311 (1994) 196
Weiss, K.-U., see Davila 311 (1994) 337
Westermann, J., H. Nienhaus and W. Mönch, Oxidation stages of clean and H-terminated Si(001) surfaces at room temperature 311 (1994) 101
Whelan, M.J., see Dudarev 311 (1994) L687
Wincott, P.L., see Roberts 311 (1994) 181
Withers, J.C., see Höper 311 (1994) L731
Woodruff, D.P., see Davila 311 (1994) 337
Workman, R.K., see Höper 311 (1994) L731
Wright, A.F., see Fallis 311 (1994) L717

Xu, H., C.-H. Tseng, T.J. Vickers, C.K. Mann and J.B. Schlenoff, Near-infrared surface-enhanced Raman spectroscopy of chemisorbed compounds on gold colloids 311 (1994) L707
Xu, W. and J.B. Adams, Erratum to "Fourth moment approximation to tight binding: application to bcc transition metals" [Surface Science 301 (1994) 371] 311 (1994) 441

Yadav, T., see Höper 311 (1994) L731
Yagi, S., T. Yokoyama, Y. Kitajima, Y. Takata, T. Kanazawa, A. Imanishi and T. Ohta, Structural and electronic properties of molecularly adsorbed CS_2 on Cu(111) studied by X-ray absorption and photoelectron spectroscopies 311 (1994) 172
Yamamoto, S., see Mochiji 311 (1994) L677
Yang, F., see Pan 311 (1994) 281
Yokoyama, T., see Yagi 311 (1994) 172

Zandvliet, H.J.W., see Hegeman 311 (1994) L655
Zemlyanov, D.Yu., see Smirnov 311 (1994) 308
Zhdanov, V.P., see Chakarov 311 (1994) L724

ELSEVIER

Surface Science 311 (1994) 449–461

surface science

Subject index

Adsorption isotherms, see also Chemisorption theory
M. Fallavier, M. Benmansour, B. Hjörvarsson, J.P. Thomas, M. Abon, H.A. Atli and J.C. Bertolini, Hydrogen on $Pt_{0.5}Ni_{0.5}$(110), alloying effects upon adsorption — 311 (1994) 24

Alkali metals
Z. Šroubek and H. Oechsner, Study of ionization processes in sputtering of LiF — 311 (1994) 263
L. Pan, Y. Wang, F. Huang, D. Fang, J. Tang and F. Yang, Calculation of charge-exchange in lithium ions/atoms scattered from cesiated metal surfaces — 311 (1994) 281
D.V. Chakarov, L. Österlund, B. Hellsing, V.P. Zhdanov and B. Kasemo, Photostimulated desorption of metal adatoms: potassium on graphite — 311 (1994) L724

Alkanes
R.W. Verhoef, D. Kelly, C.B. Mullins and W.H. Weinberg, Direct dissociative chemisorption of methane and ethane on Ir(110): isotope effects and vibrationally assisted chemisorption — 311 (1994) 196

Alloys
M. Fallavier, M. Benmansour, B. Hjörvarsson, J.P. Thomas, M. Abon, H.A. Atli and J.C. Bertolini, Hydrogen on $Pt_{0.5}Ni_{0.5}$(110), alloying effects upon adsorption — 311 (1994) 24
A. Roustila, C. Severac, J. Chêne and A. Percheron-Guégan, Hydrogen effects on the electronic and microstructural properties of Ce, Ni, and $CeNi_2$ intermetallic compound — 311 (1994) 33

Aluminium
M. Okada and Y. Murata, Sputtering of Al surfaces by very-low-energy light ions — 311 (1994) 257

Atomic and molecular beam studies
R.W. Verhoef, D. Kelly, C.B. Mullins and W.H. Weinberg, Direct dissociative chemisorption of methane and ethane on Ir(110): isotope effects and vibrationally assisted chemisorption — 311 (1994) 196
W.F. Avrin and R.P. Merrill, Simplified analysis of helium scattering: supernumerary rainbows from a soft, corrugated potential — 311 (1994) 269

Atomic force microscopy
N. Ikemiya, S. Miyaoka and S. Hara, Observations of the Cu(1 × 1) adlayer on Au(111) in a sulfuric acid solution using atomic force microscopy — 311 (1994) L641

Elsevier Science B.V.

H.Y. Nie, W. Mizutani and H. Tokumoto, Au(111) reconstruction observed by atomic force microscopy with lateral force detection 311 (1994) L649
B. Müller-Zülow, S. Kipp, R. Lacmann and M.A. Schneeweiss, Topological aspects of iron corrosion in alkaline solution by means of scanning force microscopy (SFM) 311 (1994) 153
R. Höper, R.K. Workman, D. Chen, D. Sarid, T. Yadav, J.C. Withers and R.O. Loutfy, Single-shell carbon nanotubes imaged by atomic force microscopy 311 (1994) L731
M. Koinuma and K. Uosaki, In situ observations of atomic resolution image and anodic dissolution process of p-GaAs in HCl solution by electrochemical atomic force microscope 311 (1994) L737
I.Yu. Sokolov, On the limits of the spectroscopic ability of AFM and the interaction between an AFM tip and a sample 311 (1994) 287

Auger electron spectroscopy
J. Westermann, H. Nienhaus and W. Mönch, Oxidation stages of clean and H-terminated Si(001) surfaces at room temperature 311 (1994) 101
A.J. Roberts, W.R. Flavell, D.R.C. Hoad, R.G. Egdell, S. Randall, P.L. Wincott and D. Teehan, Surface electronic structure of the $SrSn_{1-x}Sb_xO_3$ perovskite system 311 (1994) 181

Band structure
G. Tisdale and S.J. Sibener, Surface phonon dispersion of p(2 × 2)O/Ni(111) 311 (1994) 360

Cadmium selenide
Y. Golan, L. Margulis, G. Hodes, I. Rubinstein and J.L. Hutchison, Electrodeposited quantum dots. II. High resolution electron microscopy of epitaxial CdSe nanocrystals on {111} gold 311 (1994) L633

Carbon, see also Graphite
R. Höper, R.K. Workman, D. Chen, D. Sarid, T. Yadav, J.C. Withers and R.O. Loutfy, Single-shell carbon nanotubes imaged by atomic force microscopy 311 (1994) L731
M.Yu. Smirnov, V.V. Gorodetskii, A.R. Cholach and D.Yu. Zemlyanov, Hydrogenation of isolated atoms and small clusters of carbon on Pt(111) surface: HREELS/TDS studies 311 (1994) 308

Carbon monoxide
M. Eriksson and L.-G. Petersson, Spillover of hydrogen, oxygen and carbon monoxide in oxidation reactions on SiO_2 supported Pd 311 (1994) 139
J. Lauterbach and H.H. Rotermund, Spatio-temporal pattern formation during the catalytic CO-oxidation on Pt(100) 311 (1994) 231
A. von Oertzen, H.H. Rotermund and S. Nettesheim, Diffusion of carbon monoxide and oxygen on Pt(110): experiments performed with the PEEM 311 (1994) 322
J.-P. Hovi, J. Lahtinen, J. Vaari and R.M. Nieminen, Monte-Carlo simulations of CO hydrogenation on a (0001) surface 311 (1994) 331
M.E. Davila, M.C. Asensio, D.P. Woodruff, K.-M. Schindler, Ph. Hofmann, K.-U. Weiss, R. Dippel, P. Gardner, V. Fritzsche, A.M. Bradshaw, J.C. Conesa and A.R. González-Elipe, Structure determination of Ni(111)c(4 × 2)-CO and its implications for the interpretation of vibrational spectroscopic data 311 (1994) 337

Chalcogens
K. Vey, R.A. Goschke, T. Buslaps, U. Walter and F. Steglich, STM-mediated surface degradation on 1T-TaS_2 311 (1994) 53

Chemisorption theory
J. Majerus, N.J. Castellani and P. Légaré, Semi-empirical approaches of surface phenomena: Pt and Ni adatoms on Pt(111) and Ni(111) 311 (1994) L661
E.J.J. Kirchner and E.J. Baerends, A theoretical study of oxygen adsorption on Ge(001) 311 (1994) 126
S. Katircioglu and Ş. Erkoç, Adsorption sites of Ge adatoms on stepped Si(110) surface 311 (1994) L703

Chromium
E. Anno, Optical absorption of continuous films and particles of Fe and Cr: localization of conduction electrons 311 (1994) 224

Clusters
A. Tonscheidt, J.J. Hu and P.L. Ryder, Location of small iridium and platinum clusters in faujasites 311 (1994) 214

Copper
N. Ikemiya, S. Miyaoka and S. Hara, Observations of the Cu(1 × 1) adlayer on Au(111) in a sulfuric acid solution using atomic force microscopy 311 (1994) L641
H. Ogasawara, J. Inukai and M. Ito, Ex-situ IRAS and LEED studies of underpotentially deposited copper on a Pt(111) electrode in a sulfuric acid solution: layer exchanges of anions with copper 311 (1994) L665
F.M. Leibsle, Purposeful coadsorption as a method for determining adsorption sites in scanning tunneling microscopy experiments 311 (1994) 45
S. Yagi, T. Yokoyama, Y. Kitajima, Y. Takata, T. Kanazawa, A. Imanishi and T. Ohta, Structural and electronic properties of molecularly adsorbed CS_2 on Cu(111) studied by X-ray absorption and photoelectron spectroscopies 311 (1994) 172

Deuterium
M. Brejnak, A. Holas and P. Modrak, Surface segregation of hydrogen isotopes in transition-metal hydrides 311 (1994) 404

Electron diffraction, see also Low energy electron diffraction
M.E. Davila, M.C. Asensio, D.P. Woodruff, K.-M. Schindler, Ph. Hofmann, K.-U. Weiss, R. Dippel, P. Gardner, V. Fritzsche, A.M. Bradshaw, J.C. Conesa and A.R. González-Elipe, Structure determination of Ni(111)c(4 × 2)-CO and its implications for the interpretation of vibrational spectroscopic data 311 (1994) 337

Electron emission
J. Lauterbach and H.H. Rotermund, Spatio-temporal pattern formation during the catalytic CO-oxidation on Pt(100) 311 (1994) 231
S. Valeri, A. di Bona and G.C. Gazzadi, Angular anisotropy of electron-excited secondary electron emission 311 (1994) 422

Electron energy loss spectroscopy
M.L. Burke and D.W. Goodman, Epitaxial growth of ultrathin layered oxide films: MgO on NiO/Mo(100) 311 (1994) 17
H.-J. Müssig, W. Stenzel, Y. Song and H. Conrad, Hydrogen adsorption on Rh(110) studied by high resolution electron energy loss spectroscopy 311 (1994) 295
M.Yu. Smirnov, V.V. Gorodetskii, A.R. Cholach and D.Yu. Zemlyanov, Hydrogenation of isolated atoms and small clusters of carbon on Pt(111) surface: HREELS/TDS studies 311 (1994) 308
G. Tisdale and S.J. Sibener, Surface phonon dispersion of p(2 × 2)O/Ni(111) 311 (1994) 360
Y. Bu and M.C. Lin, Surface chemistry of N_2H_4 on Si(100)-2 × 1 311 (1994) 385

Electron microscopy
Y. Golan, L. Margulis, G. Hodes, I. Rubinstein and J.L. Hutchison, Electrodeposited quantum dots. II. High resolution electron microscopy of epitaxial CdSe nanocrystals on {111} gold 311 (1994) L633
A. Tonscheidt, J.J. Hu and P.L. Ryder, Location of small iridium and platinum clusters in faujasites 311 (1994) 214
A.V. Latyshev, A.B. Krasilnikov and A.L. Aseev, UHV REM study of the anti-band structure on the vicinal Si(111) surface under heating by a direct electric current 311 (1994) 395

Electron scattering
S.L. Dudarev and M.J. Whelan, Temperature dependence of elastic backscattering of electrons from polycrystalline solids 311 (1994) L687

Gallium arsenide
K. Mochiji, I. Ochiai, S. Yamamoto and S. Takatani, Photon-stimulated ion desorption and photoelectron spectroscopy of a chlorine-adsorbed GaAs(111)B surface 311 (1994) L677
Ş. Katircioglu and Ş. Erkoç, Dependence of resonance states on doping level and doping distribution type in GaAs/$Ga_{0.75}Al_{0.25}As$ superlattice 311 (1994) L682
M. Koinuma and K. Uosaki, In situ observations of atomic resolution image and anodic dissolution process of p-GaAs in HCl solution by electrochemical atomic force microscope 311 (1994) L737
S. Valeri, A. di Bona and G.C. Gazzadi, Angular anisotropy of electron-excited secondary electron emission 311 (1994) 422

Germanium
E.J.J. Kirchner and E.J. Baerends, A theoretical study of oxygen adsorption on Ge(001) 311 (1994) 126
S. Katircioglu and Ş. Erkoç, Adsorption sites of Ge adatoms on stepped Si(110) surface 311 (1994) L703

Gold
N. Ikemiya, S. Miyaoka and S. Hara, Observations of the Cu(1 × 1) adlayer on Au(111) in a sulfuric acid solution using atomic force microscopy 311 (1994) L641
H.Y. Nie, W. Mizutani and H. Tokumoto, Au(111) reconstruction observed by atomic force microscopy with lateral force detection 311 (1994) L649
D.M. Jaffey and R.J. Madix, The reactivity of sulfur-containing molecules on noble metal surfaces. III. Ethanethiol on Au(110) and Ag(110) 311 (1994) 159

H. Xu, C.-H. Tseng, T.J. Vickers, C.K. Mann and J.B. Schlenoff, Near-infrared surface-enhanced Raman spectroscopy of chemisorbed compounds on gold colloids 311 (1994) L707

Graphite

D.V. Chakarov, L. Österlund, B. Hellsing, V.P. Zhdanov and B. Kasemo, Photo-stimulated desorption of metal adatoms: potassium on graphite 311 (1994) L724

Halogens

K. Mochiji, I. Ochiai, S. Yamamoto and S. Takatani, Photon-stimulated ion desorption and photoelectron spectroscopy of a chlorine-adsorbed GaAs(111)B surface 311 (1994) L677

Hydrides

M. Brejnak, A. Holas and P. Modrak, Surface segregation of hydrogen isotopes in transition-metal hydrides 311 (1994) 404

Hydrogen

M. Fallavier, M. Benmansour, B. Hjörvarsson, J.P. Thomas, M. Abon, H.A. Atli and J.C. Bertolini, Hydrogen on $Pt_{0.5}Ni_{0.5}$(110), alloying effects upon adsorption 311 (1994) 24

A. Roustila, C. Severac, J. Chêne and A. Percheron-Guégan, Hydrogen effects on the electronic and microstructural properties of Ce, Ni, and $CeNi_2$ intermetallic compound 311 (1994) 33

M. Eriksson and L.-G. Petersson, Spillover of hydrogen, oxygen and carbon monoxide in oxidation reactions on SiO_2 supported Pd 311 (1994) 139

H.-J. Müssig, W. Stenzel, Y. Song and H. Conrad, Hydrogen adsorption on Rh(110) studied by high resolution electron energy loss spectroscopy 311 (1994) 295

J.-P. Hovi, J. Lahtinen, J. Vaari and R.M. Nieminen, Monte-Carlo simulations of CO hydrogenation on a (0001) surface 311 (1994) 331

Indium phosphide

S. Valeri, A. di Bona and G.C. Gazzadi, Angular anisotropy of electron-excited secondary electron emission 311 (1994) 422

Infrared spectroscopy

H. Ogasawara, J. Inukai and M. Ito, Ex-situ IRAS and LEED studies of underpotentially deposited copper on a Pt(111) electrode in a sulfuric acid solution: layer exchanges of anions with copper 311 (1994) L665

Inorganic compounds

S. Yagi, T. Yokoyama, Y. Kitajima, Y. Takata, T. Kanazawa, A. Imanishi and T. Ohta, Structural and electronic properties of molecularly adsorbed CS_2 on Cu(111) studied by X-ray absorption and photoelectron spectroscopies 311 (1994) 172

Y. Bu and M.C. Lin, Surface chemistry of N_2H_4 on Si(100)-2×1 311 (1994) 385

Ion scattering

L. Pan, Y. Wang, F. Huang, D. Fang, J. Tang and F. Yang, Calculation of charge-exchange in lithium ions/atoms scattered from cesiated metal surfaces 311 (1994) 281

Iridium

R.W. Verhoef, D. Kelly, C.B. Mullins and W.H. Weinberg, Direct dissociative chemisorption of methane and ethane on Ir(110): isotope effects and vibrationally assisted chemisorption 311 (1994) 196

A. Tonscheidt, J.J. Hu and P.L. Ryder, Location of small iridium and platinum clusters in faujasites 311 (1994) 214

M.C. Fallis, A.F. Wright, C.Y. Fong and M.S. Daw, Trapping of a diffusing adatom by a substitutional surface defect 311 (1994) L717

Iron

B. Müller-Zülow, S. Kipp, R. Lacmann and M.A. Schneeweiss, Topological aspects of iron corrosion in alkaline solution by means of scanning force microscopy (SFM) 311 (1994) 153

E. Anno, Optical absorption of continuous films and particles of Fe and Cr: localization of conduction electrons 311 (1994) 224

Lanthanides

A. Roustila, C. Severac, J. Chêne and A. Percheron-Guégan, Hydrogen effects on the electronic and microstructural properties of Ce, Ni, and $CeNi_2$ intermetallic compound 311 (1994) 33

Low energy electron diffraction

H. Ogasawara, J. Inukai and M. Ito, Ex-situ IRAS and LEED studies of underpotentially deposited copper on a Pt(111) electrode in a sulfuric acid solution: layer exchanges of anions with copper 311 (1994) L665

F. Bart and M. Gautier, A LEED study of the (0001) α-quartz surface reconstruction 311 (1994) L671

H. Hamadeh, O. Knauff, G. Pirug and H.P. Bonzel, Adsorption of ethylene oxide on Ni(110): structure, thermal and radiation-induced decomposition 311 (1994) 1

M.L. Burke and D.W. Goodman, Epitaxial growth of ultrathin layered oxide films: MgO on NiO/Mo(100) 311 (1994) 17

C.B. Duke, Erratum to "Interaction of electrons and positrons with solids: from bulk to surface in thirty years" [Surface Science 299/300 (1994) 24] 311 (1994) 440

Magnesium oxide

M.L. Burke and D.W. Goodman, Epitaxial growth of ultrathin layered oxide films: MgO on NiO/Mo(100) 311 (1994) 17

Methane

R.W. Verhoef, D. Kelly, C.B. Mullins and W.H. Weinberg, Direct dissociative chemisorption of methane and ethane on Ir(110): isotope effects and vibrationally assisted chemisorption 311 (1994) 196

Molybdenum

W. Xu and J.B. Adams, Erratum to "Fourth moment approximation to tight binding: application to bcc transition metals" [Surface Science 301 (1994) 371] 311 (1994) 441

Nickel

J. Majerus, N.J. Castellani and P. Légaré, Semi-empirical approaches of surface phenomena: Pt and Ni adatoms on Pt(111) and Ni(111) 311 (1994) L661

H. Hamadeh, O. Knauff, G. Pirug and H.P. Bonzel, Adsorption of ethylene oxide on Ni(110): structure, thermal and radiation-induced decomposition 311 (1994) 1
A. Roustila, C. Severac, J. Chêne and A. Percheron-Guégan, Hydrogen effects on the electronic and microstructural properties of Ce, Ni, and $CeNi_2$ intermetallic compound 311 (1994) 33
M.E. Davila, M.C. Asensio, D.P. Woodruff, K.-M. Schindler, Ph. Hofmann, K.-U. Weiss, R. Dippel, P. Gardner, V. Fritzsche, A.M. Bradshaw, J.C. Conesa and A.R. González-Elipe, Structure determination of Ni(111)c(4 × 2)-CO and its implications for the interpretation of vibrational spectroscopic data 311 (1994) 337
C. Bureau, M. Defranceschi, J. Delhalle, G. Deniau, J. Tanguy and G. Lecayon, Theoretical monomer/cluster model of a polymer/metal interface: poly(methacrylonitrile) on a nickel surface 311 (1994) 349
G. Tisdale and S.J. Sibener, Surface phonon dispersion of p(2 × 2)O/Ni(111) 311 (1994) 360

Nickel oxide
M.L. Burke and D.W. Goodman, Epitaxial growth of ultrathin layered oxide films: MgO on NiO/Mo(100) 311 (1994) 17

Niobium
N. Schühler, S. Schelz and P. Oelhafen, In situ metallization of polystyrene: a PES study of the interface properties 311 (1994) 189

Nitric oxide
K. Fukutani, Y. Murata, R. Schwarzwald and T.J. Chuang, UV-laser-induced desorption of NO from Pt(111) 311 (1994) 247

Nitrogen
F.M. Leibsle, Purposeful coadsorption as a method for determining adsorption sites in scanning tunneling microscopy experiments 311 (1994) 45
H. Ågren, P. Norman, D. Jonsson and C. Liegener, On the vibrational and orientational probing of surface-adsorbates by direct and resonance photoemission 311 (1994) 375

Organic substances
H. Hamadeh, O. Knauff, G. Pirug and H.P. Bonzel, Adsorption of ethylene oxide on Ni(110): structure, thermal and radiation-induced decomposition 311 (1994) 1
D.M. Jaffey and R.J. Madix, The reactivity of sulfur-containing molecules on noble metal surfaces. III. Ethanethiol on Au(110) and Ag(110) 311 (1994) 159
H. Xu, C.-H. Tseng, T.J. Vickers, C.K. Mann and J.B. Schlenoff, Near-infrared surface-enhanced Raman spectroscopy of chemisorbed compounds on gold colloids 311 (1994) L707

Oxides
A.J. Roberts, W.R. Flavell, D.R.C. Hoad, R.G. Egdell, S. Randall, P.L. Wincott and D. Teehan, Surface electronic structure of the $SrSn_{1-x}Sb_xO_3$ perovskite system 311 (1994) 181

Oxygen
F.M. Leibsle, Purposeful coadsorption as a method for determining adsorption sites in scanning tunneling microscopy experiments 311 (1994) 45

J. Westermann, H. Nienhaus and W. Mönch, Oxidation stages of clean and H-terminated Si(001) surfaces at room temperature 311 (1994) 101
E.J.J. Kirchner and E.J. Baerends, A theoretical study of oxygen adsorption on Ge(001) 311 (1994) 126
M. Eriksson and L.-G. Petersson, Spillover of hydrogen, oxygen and carbon monoxide in oxidation reactions on SiO_2 supported Pd 311 (1994) 139
J. Lauterbach and H.H. Rotermund, Spatio-temporal pattern formation during the catalytic CO-oxidation on Pt(100) 311 (1994) 231
A. von Oertzen, H.H. Rotermund and S. Nettesheim, Diffusion of carbon monoxide and oxygen on Pt(110): experiments performed with the PEEM 311 (1994) 322
G. Tisdale and S.J. Sibener, Surface phonon dispersion of $p(2 \times 2)O/Ni(111)$ 311 (1994) 360
H. Ågren, P. Norman, D. Jonsson and C. Liegener, On the vibrational and orientational probing of surface-adsorbates by direct and resonance photoemission 311 (1994) 375

Palladium

M. Eriksson and L.-G. Petersson, Spillover of hydrogen, oxygen and carbon monoxide in oxidation reactions on SiO_2 supported Pd 311 (1994) 139

Photodesorption

K. Mochiji, I. Ochiai, S. Yamamoto and S. Takatani, Photon-stimulated ion desorption and photoelectron spectroscopy of a chlorine-adsorbed GaAs(111)B surface 311 (1994) L677
K. Fukutani, Y. Murata, R. Schwarzwald and T.J. Chuang, UV-laser-induced desorption of NO from Pt(111) 311 (1994) 247
D.V. Chakarov, L. Österlund, B. Hellsing, V.P. Zhdanov and B. Kasemo, Photostimulated desorption of metal adatoms: potassium on graphite 311 (1994) L724

Photoelectron spectroscopy

K. Mochiji, I. Ochiai, S. Yamamoto and S. Takatani, Photon-stimulated ion desorption and photoelectron spectroscopy of a chlorine-adsorbed GaAs(111)B surface 311 (1994) L677
H. Hamadeh, O. Knauff, G. Pirug and H.P. Bonzel, Adsorption of ethylene oxide on Ni(110): structure, thermal and radiation-induced decomposition 311 (1994) 1
M.L. Burke and D.W. Goodman, Epitaxial growth of ultrathin layered oxide films: MgO on NiO/Mo(100) 311 (1994) 17
A. Roustila, C. Severac, J. Chêne and A. Percheron-Guégan, Hydrogen effects on the electronic and microstructural properties of Ce, Ni, and $CeNi_2$ intermetallic compound 311 (1994) 33
M. Eriksson and L.-G. Petersson, Spillover of hydrogen, oxygen and carbon monoxide in oxidation reactions on SiO_2 supported Pd 311 (1994) 139
N. Schühler, S. Schelz and P. Oelhafen, In situ metallization of polystyrene: a PES study of the interface properties 311 (1994) 189
M.E. Davila, M.C. Asensio, D.P. Woodruff, K.-M. Schindler, Ph. Hofmann, K.-U. Weiss, R. Dippel, P. Gardner, V. Fritzsche, A.M. Bradshaw, J.C. Conesa and A.R. González-Elipe, Structure determination of $Ni(111)c(4 \times 2)$-CO and its implications for the interpretation of vibrational spectroscopic data 311 (1994) 337
C. Bureau, M. Defranceschi, J. Delhalle, G. Deniau, J. Tanguy and G. Lecayon, Theoretical monomer/cluster model of a polymer/metal interface: poly(methacrylonitrile) on a nickel surface 311 (1994) 349

H. Ågren, P. Norman, D. Jonsson and C. Liegener, On the vibrational and orientational probing of surface-adsorbates by direct and resonance photoemission 311 (1994) 375
Y. Bu and M.C. Lin, Surface chemistry of N_2H_4 on Si(100)-2 × 1 311 (1994) 385

Photon emission
A.J. Roberts, W.R. Flavell, D.R.C. Hoad, R.G. Egdell, S. Randall, P.L. Wincott and D. Teehan, Surface electronic structure of the $SrSn_{1-x}Sb_xO_3$ perovskite system 311 (1994) 181

Platinum
J. Majerus, N.J. Castellani and P. Légaré, Semi-empirical approaches of surface phenomena: Pt and Ni adatoms on Pt(111) and Ni(111) 311 (1994) L661
H. Ogasawara, J. Inukai and M. Ito, Ex-situ IRAS and LEED studies of underpotentially deposited copper on a Pt(111) electrode in a sulfuric acid solution: layer exchanges of anions with copper 311 (1994) L665
A. Tonscheidt, J.J. Hu and P.L. Ryder, Location of small iridium and platinum clusters in faujasites 311 (1994) 214
J. Lauterbach and H.H. Rotermund, Spatio-temporal pattern formation during the catalytic CO-oxidation on Pt(100) 311 (1994) 231
K. Fukutani, Y. Murata, R. Schwarzwald and T.J. Chuang, UV-laser-induced desorption of NO from Pt(111) 311 (1994) 247
M.Yu. Smirnov, V.V. Gorodetskii, A.R. Cholach and D.Yu. Zemlyanov, Hydrogenation of isolated atoms and small clusters of carbon on Pt(111) surface: HREELS/TDS studies 311 (1994) 308
A. von Oertzen, H.H. Rotermund and S. Nettesheim, Diffusion of carbon monoxide and oxygen on Pt(110): experiments performed with the PEEM 311 (1994) 322

Polymers
N. Schühler, S. Schelz and P. Oelhafen, In situ metallization of polystyrene: a PES study of the interface properties 311 (1994) 189
C. Bureau, M. Defranceschi, J. Delhalle, G. Deniau, J. Tanguy and G. Lecayon, Theoretical monomer/cluster model of a polymer/metal interface: poly(methacrylonitrile) on a nickel surface 311 (1994) 349

Positron spectroscopy
C.B. Duke, Erratum to "Interaction of electrons and positrons with solids: from bulk to surface in thirty years" [Surface Science 299/300 (1994) 24] 311 (1994) 440

Raman scattering
H. Xu, C.-H. Tseng, T.J. Vickers, C.K. Mann and J.B. Schlenoff, Near-infrared surface-enhanced Raman spectroscopy of chemisorbed compounds on gold colloids 311 (1994) L707

Reflection spectroscopy
S. Nakatani and T. Takahashi, Dynamical treatment of X-ray reflection from crystal surfaces 311 (1994) 433

Rhodium
M.C. Fallis, A.F. Wright, C.Y. Fong and M.S. Daw, Trapping of a diffusing adatom by a substitutional surface defect 311 (1994) L717
H.-J. Müssig, W. Stenzel, Y. Song and H. Conrad, Hydrogen adsorption on Rh(110) studied by high resolution electron energy loss spectroscopy 311 (1994) 295

Silane
Y. Wang, M.J. Bronikowski and R.J. Hamers, An atomically resolved scanning tunneling microscopy study of the thermal decomposition of disilane on Si(001) 311 (1994) 64

Silicides
J.A. Kubby and W.J. Greene, Imaging misfit dislocations in epitaxial $CoSi_2$/Si(111) layers using quantum size microscopy 311 (1994) L695

Silicon
P.E. Hegeman, H.J.W. Zandvliet, G.A.M. Kip and A. van Silfhout, Kinetic roughening of vicinal Si(001) 311 (1994) L655
Y. Wang, M.J. Bronikowski and R.J. Hamers, An atomically resolved scanning tunneling microscopy study of the thermal decomposition of disilane on Si(001) 311 (1994) 64
J. Westermann, H. Nienhaus and W. Mönch, Oxidation stages of clean and H-terminated Si(001) surfaces at room temperature 311 (1994) 101
W. Shimada and H. Tochihara, Step-structure dependent step-flow: models for the homoepitaxial growth at the atomic steps on Si(111)7×7 311 (1994) 107
J.A. Kubby and W.J. Greene, Imaging misfit dislocations in epitaxial $CoSi_2$/Si(111) layers using quantum size microscopy 311 (1994) L695
S. Katircioglu and Ş. Erkoç , Adsorption sites of Ge adatoms on stepped Si(110) surface 311 (1994) L703
R. Höper, R.K. Workman, D. Chen, D. Sarid, T. Yadav, J.C. Withers and R.O. Loutfy, Single-shell carbon nanotubes imaged by atomic force microscopy 311 (1994) L731
Y. Bu and M.C. Lin, Surface chemistry of N_2H_4 on Si(100)-2×1 311 (1994) 385
A.V. Latyshev, A.B. Krasilnikov and A.L. Aseev, UHV REM study of the anti-band structure on the vicinal Si(111) surface under heating by a direct electric current 311 (1994) 395

Silicon oxide
F. Bart and M. Gautier, A LEED study of the (0001) α-quartz surface reconstruction 311 (1994) L671
M. Eriksson and L.-G. Petersson, Spillover of hydrogen, oxygen and carbon monoxide in oxidation reactions on SiO_2 supported Pd 311 (1994) 139

Silver
D.M. Jaffey and R.J. Madix, The reactivity of sulfur-containing molecules on noble metal surfaces. III. Ethanethiol on Au(110) and Ag(110) 311 (1994) 159

Solid–electrolyte interface
N. Ikemiya, S. Miyaoka and S. Hara, Observations of the Cu(1×1) adlayer on Au(111) in a sulfuric acid solution using atomic force microscopy 311 (1994) L641
H. Ogasawara, J. Inukai and M. Ito, Ex-situ IRAS and LEED studies of underpotentially deposited copper on a Pt(111) electrode in a sulfuric acid solution: layer exchanges of anions with copper 311 (1994) L665

B. Müller-Zülow, S. Kipp, R. Lacmann and M.A. Schneeweiss, Topological aspects of iron corrosion in alkaline solution by means of scanning force microscopy (SFM) 311 (1994) 153
M. Koinuma and K. Uosaki, In situ observations of atomic resolution image and anodic dissolution process of p-GaAs in HCl solution by electrochemical atomic force microscope 311 (1994) L737

Sputtering
M. Okada and Y. Murata, Sputtering of Al surfaces by very-low-energy light ions 311 (1994) 257
Z. Šroubek and H. Oechsner, Study of ionization processes in sputtering of LiF 311 (1994) 263

Sulphur
F.M. Leibsle, Purposeful coadsorption as a method for determining adsorption sites in scanning tunneling microscopy experiments 311 (1994) 45

Superlattices
Ş. Katircioglu and Ş. Erkoç, Dependence of resonance states on doping level and doping distribution type in GaAs/$Ga_{0.75}Al_{0.25}As$ superlattice 311 (1994) L682

Surface defects
K. Vey, R.A. Goschke, T. Buslaps, U. Walter and F. Steglich, STM-mediated surface degradation on 1T-TaS_2 311 (1994) 53
W. Shimada and H. Tochihara, Step-structure dependent step-flow: models for the homoepitaxial growth at the atomic steps on Si(111)7 × 7 311 (1994) 107
J.A. Kubby and W.J. Greene, Imaging misfit dislocations in epitaxial $CoSi_2$/Si(111) layers using quantum size microscopy 311 (1994) L695
S. Harris, Monatomic to biatomic step transition during epitaxial growth by step flow 311 (1994) L712
A.V. Latyshev, A.B. Krasilnikov and A.L. Aseev, UHV REM study of the anti-band structure on the vicinal Si(111) surface under heating by a direct electric current 311 (1994) 395

Surface diffusion
S. Harris, Monatomic to biatomic step transition during epitaxial growth by step flow 311 (1994) L712
M.C. Fallis, A.F. Wright, C.Y. Fong and M.S. Daw, Trapping of a diffusing adatom by a substitutional surface defect 311 (1994) L717
A. von Oertzen, H.H. Rotermund and S. Nettesheim, Diffusion of carbon monoxide and oxygen on Pt(110): experiments performed with the PEEM 311 (1994) 322
R. Ferrando, R. Spadacini, G.E. Tommei and G. Caratti, Correlation functions in surface diffusion: the multiple-jump regime 311 (1994) 411

Surface phonons and adsorbate vibrations
G. Tisdale and S.J. Sibener, Surface phonon dispersion of p(2 × 2)O/Ni(111) 311 (1994) 360

Surface plasmons
E. Anno, Optical absorption of continuous films and particles of Fe and Cr: localization of conduction electrons 311 (1994) 224

Surface roughness
P.E. Hegeman, H.J.W. Zandvliet, G.A.M. Kip and A. van Silfhout, Kinetic roughening of vicinal Si(001) 311 (1994) L655

Surface segregation
M. Brejnak, A. Holas and P. Modrak, Surface segregation of hydrogen isotopes in transition-metal hydrides 311 (1994) 404

Surface structure, see also Low energy electron diffraction
H.Y. Nie, W. Mizutani and H. Tokumoto, Au(111) reconstruction observed by atomic force microscopy with lateral force detection 311 (1994) L649
F. Bart and M. Gautier, A LEED study of the (0001) α-quartz surface reconstruction 311 (1994) L671
H. Hamadeh, O. Knauff, G. Pirug and H.P. Bonzel, Adsorption of ethylene oxide on Ni(110): structure, thermal and radiation-induced decomposition 311 (1994) 1
F.M. Leibsle, Purposeful coadsorption as a method for determining adsorption sites in scanning tunneling microscopy experiments 311 (1994) 45
S. Yagi, T. Yokoyama, Y. Kitajima, Y. Takata, T. Kanazawa, A. Imanishi and T. Ohta, Structural and electronic properties of molecularly adsorbed CS_2 on Cu(111) studied by X-ray absorption and photoelectron spectroscopies 311 (1994) 172
M.E. Davila, M.C. Asensio, D.P. Woodruff, K.-M. Schindler, Ph. Hofmann, K.-U. Weiss, R. Dippel, P. Gardner, V. Fritzsche, A.M. Bradshaw, J.C. Conesa and A.R. González-Elipe, Structure determination of Ni(111)c(4 × 2)-CO and its implications for the interpretation of vibrational spectroscopic data 311 (1994) 337
W. Xu and J.B. Adams, Erratum to "Fourth moment approximation to tight binding: application to bcc transition metals" [Surface Science 301 (1994) 371] 311 (1994) 441

Thermal desorption
M. Fallavier, M. Benmansour, B. Hjörvarsson, J.P. Thomas, M. Abon, H.A. Atli and J.C. Bertolini, Hydrogen on $Pt_{0.5}Ni_{0.5}$(110), alloying effects upon adsorption 311 (1994) 24
D.M. Jaffey and R.J. Madix, The reactivity of sulfur-containing molecules on noble metal surfaces. III. Ethanethiol on Au(110) and Ag(110) 311 (1994) 159
M.Yu. Smirnov, V.V. Gorodetskii, A.R. Cholach and D.Yu. Zemlyanov, Hydrogenation of isolated atoms and small clusters of carbon on Pt(111) surface: HREELS/TDS studies 311 (1994) 308

Tungsten
L. Pan, Y. Wang, F. Huang, D. Fang, J. Tang and F. Yang, Calculation of charge-exchange in lithium ions/atoms scattered from cesiated metal surfaces 311 (1994) 281
W. Xu and J.B. Adams, Erratum to "Fourth moment approximation to tight binding: application to bcc transition metals" [Surface Science 301 (1994) 371] 311 (1994) 441

Tunneling
P.E. Hegeman, H.J.W. Zandvliet, G.A.M. Kip and A. van Silfhout, Kinetic roughening of vicinal Si(001) 311 (1994) L655
F.M. Leibsle, Purposeful coadsorption as a method for determining adsorption sites in scanning tunneling microscopy experiments 311 (1994) 45
K. Vey, R.A. Goschke, T. Buslaps, U. Walter and F. Steglich, STM-mediated surface degradation on 1T-TaS_2 311 (1994) 53

Y. Wang, M.J. Bronikowski and R.J. Hamers, An atomically resolved scanning tunneling microscopy study of the thermal decomposition of disilane on Si(001) 311 (1994) 64
J.A. Kubby and W.J. Greene, Imaging misfit dislocations in epitaxial $CoSi_2$/Si(111) layers using quantum size microscopy 311 (1994) L695

Vanadium
W. Xu and J.B. Adams, Erratum to "Fourth moment approximation to tight binding: application to bcc transition metals" [Surface Science 301 (1994) 371] 311 (1994) 441

Work function
M. Fallavier, M. Benmansour, B. Hjörvarsson, J.P. Thomas, M. Abon, H.A. Atli and J.C. Bertolini, Hydrogen on $Pt_{0.5}Ni_{0.5}$(110), alloying effects upon adsorption 311 (1994) 24

X-ray absorption
S. Yagi, T. Yokoyama, Y. Kitajima, Y. Takata, T. Kanazawa, A. Imanishi and T. Ohta, Structural and electronic properties of molecularly adsorbed CS_2 on Cu(111) studied by X-ray absorption and photoelectron spectroscopies 311 (1994) 172

X-ray diffraction
A.J. Roberts, W.R. Flavell, D.R.C. Hoad, R.G. Egdell, S. Randall, P.L. Wincott and D. Teehan, Surface electronic structure of the $SrSn_{1-x}Sb_xO_3$ perovskite system 311 (1994) 181

Zeolites
A. Tonscheidt, J.J. Hu and P.L. Ryder, Location of small iridium and platinum clusters in faujasites 311 (1994) 214